US Army Corps of Engineers

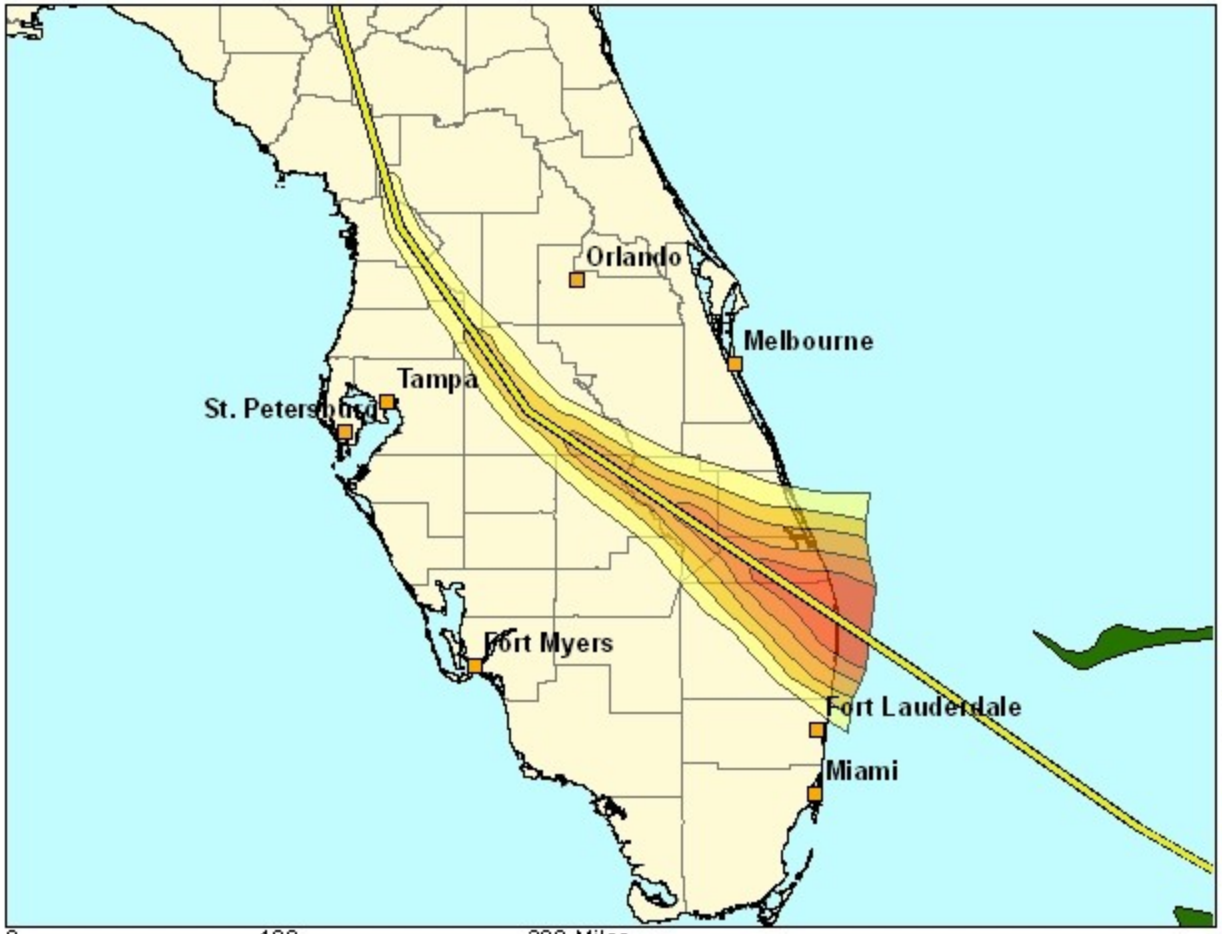
Hurricane Tolbert Projected Damage Areas

Landfall Plus About **15** Hours

For Official Use Only!

Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall near Palm Beach.



Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC (1700 EDT 05/09/2007) forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Projected Damage Areas

Generated By:
Siemsen, LRL 1730 EDT 05/09/2007

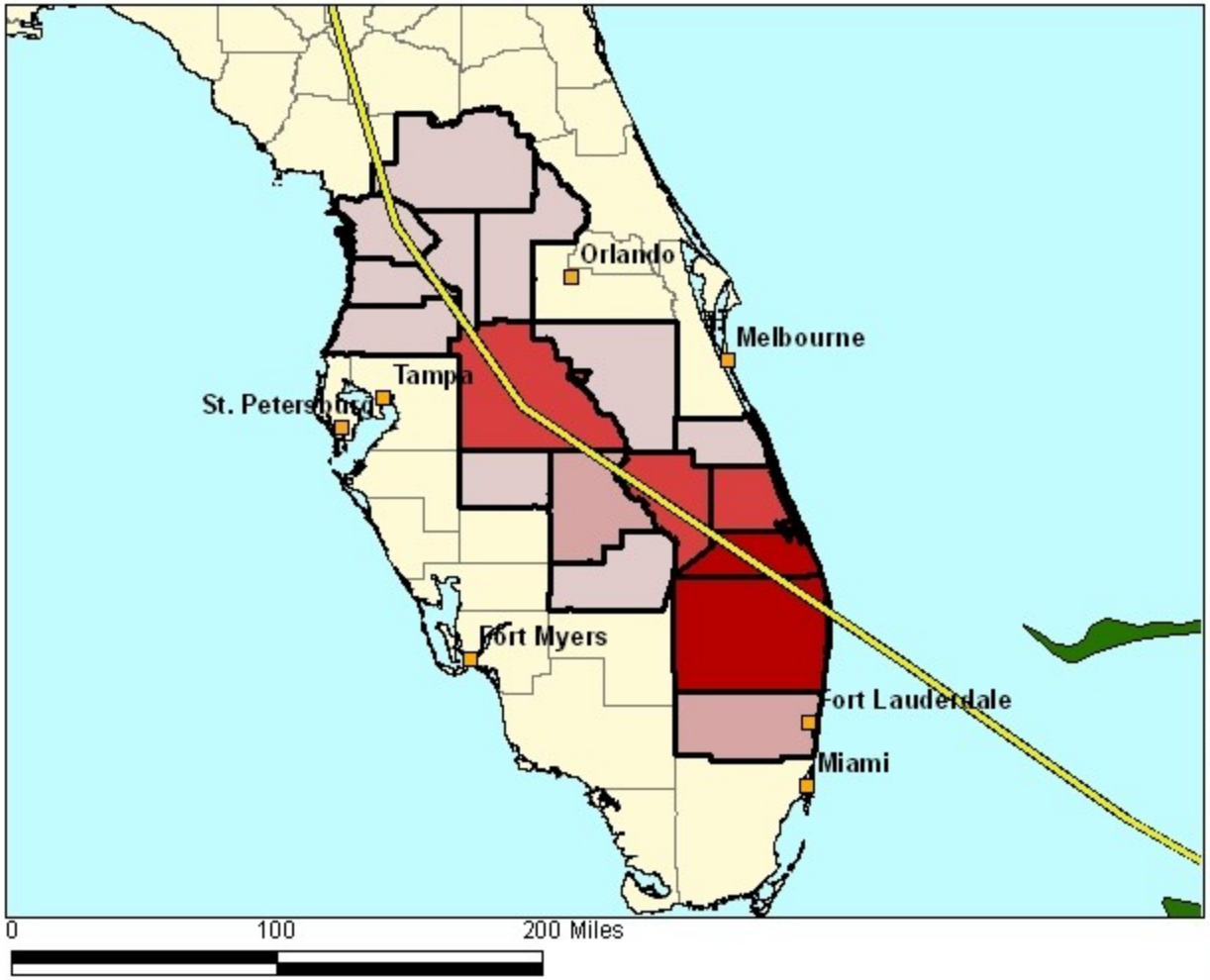
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Tolbert Debris Model

Landfall Plus About **15** Hours

For Official Use Only!



Post Landfall Debris Model Results

Florida - 47,416,000 Yards

Model results per county on following page

This model is based on a Category 4 storm making landfall near Palm Beach.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC (1700 EDT 05/09/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Debris Model	
Generated By: Siemsen, LRL 1730 EDT 05/09/2007	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Tolbert Debris Model

Landfall Plus About 15 Hours

For Official Use Only!

State	Yards per State	County	Yards per County
Florida		Broward	135,000
		Citrus	45,000
		Glades	4,000
		Hardee	< 1,000
		Hendry	< 1,000
		Hernando	7,000
		Highlands	144,000
		Hillsborough	< 1,000
		Indian River	< 1,000
		Lake	< 1,000
		Marion	6,000
		Martin	2,409,000
		Okeechobee	569,000
		Osceola	< 1,000
		Palm Beach	42,871,000
		Pasco	6,000
		Polk	611,000
		St Lucie	600,000
		Sumter	9,000
Florida	47,416,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Debris Model

Generated By:
Siemsen, LRL 1730 EDT 05/09/2007

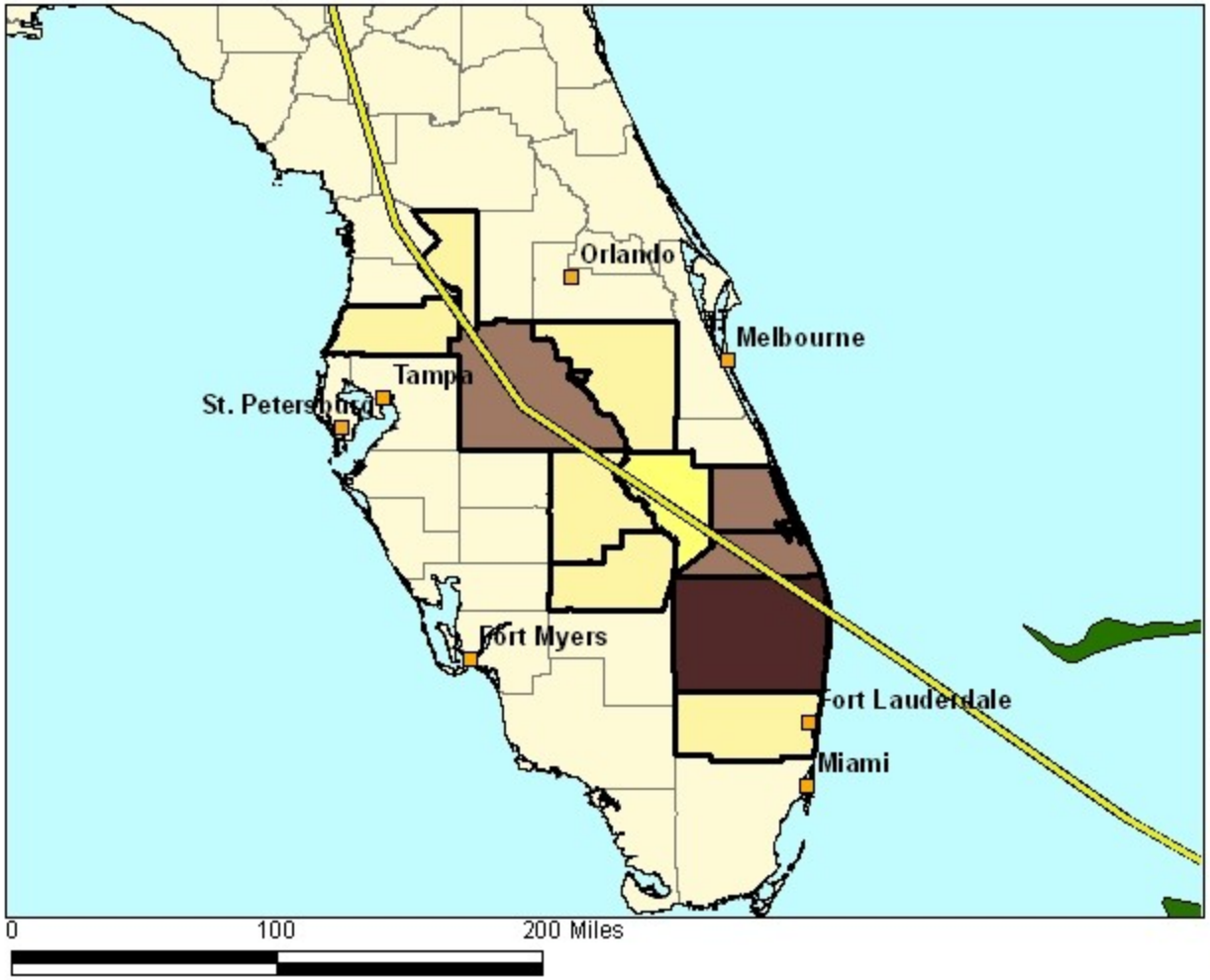
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Tolbert Population Model

Landfall Plus About **15** Hours

For Official Use Only!



Post Landfall Population Model Results

Florida - 1,619,000

Model results per county on following page

This model is based on a Category 4 storm making landfall near Palm Beach.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC (1700 EDT 05/09/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Population Model	
Generated By: Siemsen, LRL 1730 EDT 05/09/2007	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Tolbert Population Model

Landfall Plus About **15** Hours

For Official Use Only!

State	Population per State	County	Population per County
Florida		Broward	< 1,000
		Glades	< 1,000
		Highlands	17,000
		Martin	140,000
		Okeechobee	38,000
		Osceola	< 1,000
		Palm Beach	1,118,000
		Pasco	< 1,000
		Polk	165,000
		St Lucie	141,000
		Sumter	< 1,000
Florida	1,619,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Population Model

Generated By:
Siemsen, LRL 1730 EDT 05/09/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Tolbert Households Model

Landfall Plus About **15** Hours

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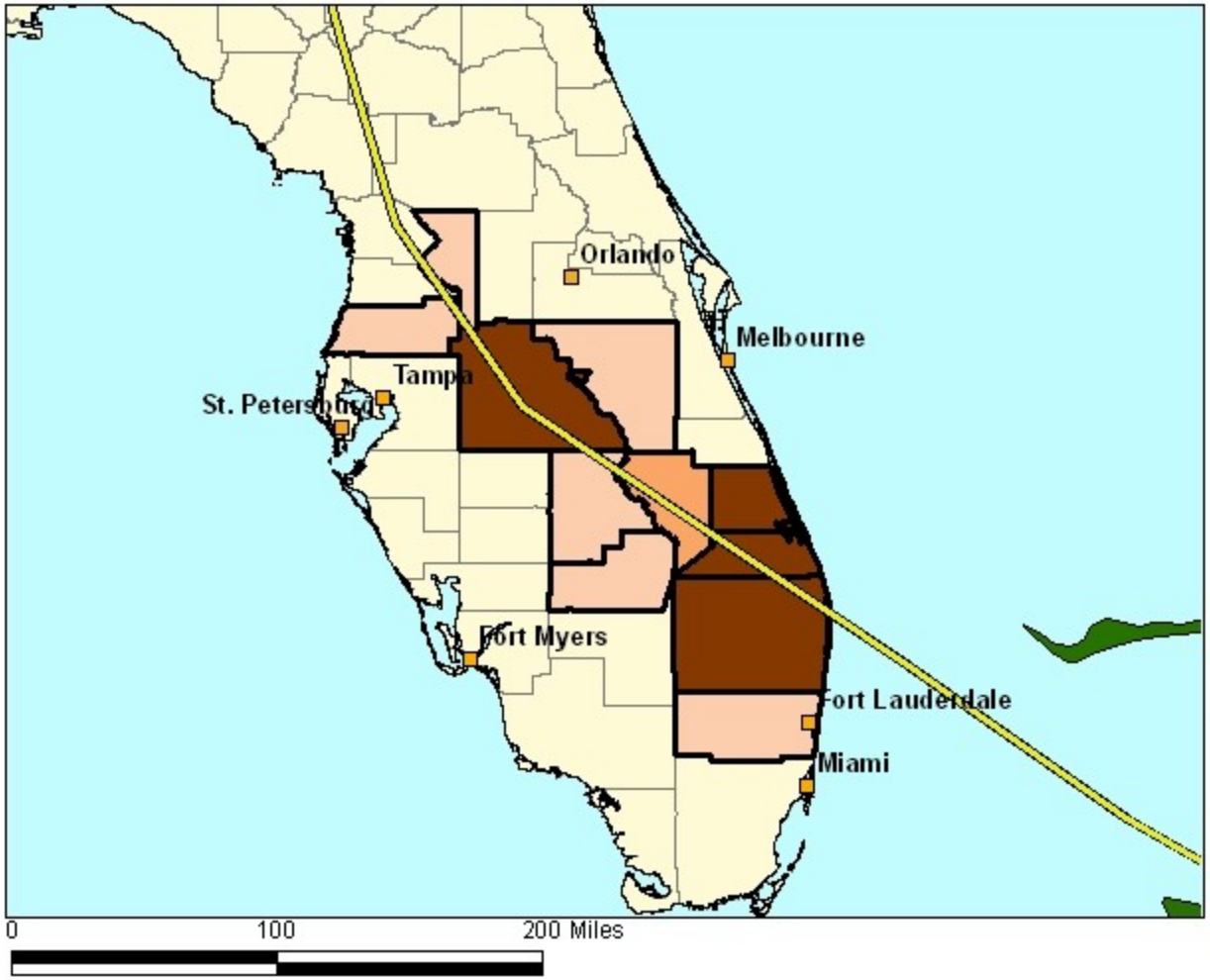


Post Landfall Households Model Results

Florida - 678,000

Model results per county on following page

This model is based on a Category 4 storm making landfall near Palm Beach.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC (1700 EDT 05/09/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Households Model	
Generated By: Siemsen, LRL 1730 EDT 05/09/2007	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Tolbert Households Model

Landfall Plus About **15** Hours

For Official Use Only!

State	Households per State	County	Households per County
Florida		Broward	< 1,000
		Glades	< 1,000
		Highlands	8,000
		Martin	61,000
		Okeechobee	14,000
		Osceola	< 1,000
		Palm Beach	474,000
		Pasco	< 1,000
		Polk	64,000
		St Lucie	57,000
		Sumter	< 1,000
Florida	678,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Households Model

Generated By:
Siemsen, LRL 1730 EDT 05/09/2007

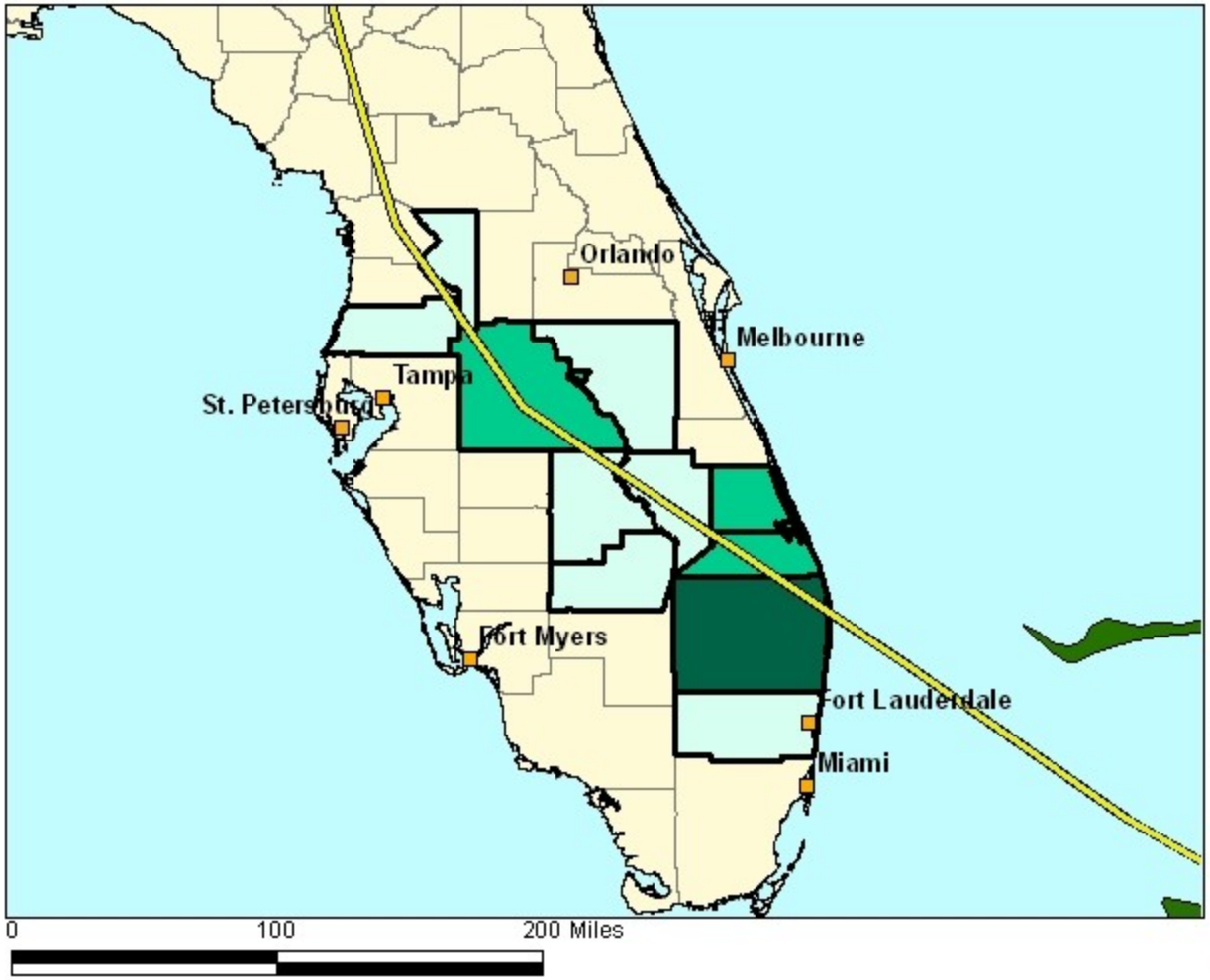
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Tolbert Commodities Model

Landfall Plus About **15** Hours

For Official Use Only!



Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
FL – 50/100/138 Truckloads Each

Model results per county on following page

This model is based on a Category 4 storm making landfall near Palm Beach.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC ***(1700 EDT 05/09/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Commodities Model	
Generated By: Siemsen, LRL 1730 EDT 05/09/2007	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Tolbert Commodities Model

Landfall Plus About 15 Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
Florida		Broward	1
		Glades	1
		Highlands	2
		Martin	12
		Okeechobee	3
		Osceola	1
		Palm Beach	90
		Pasco	1
		Polk	14
		St Lucie	12
		Sumter	1
Florida	138		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Commodities Model

Generated By:
Siemsen, LRL 1730 EDT 05/09/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Tolbert Temporary Housing Model

Landfall Plus About **15** Hours

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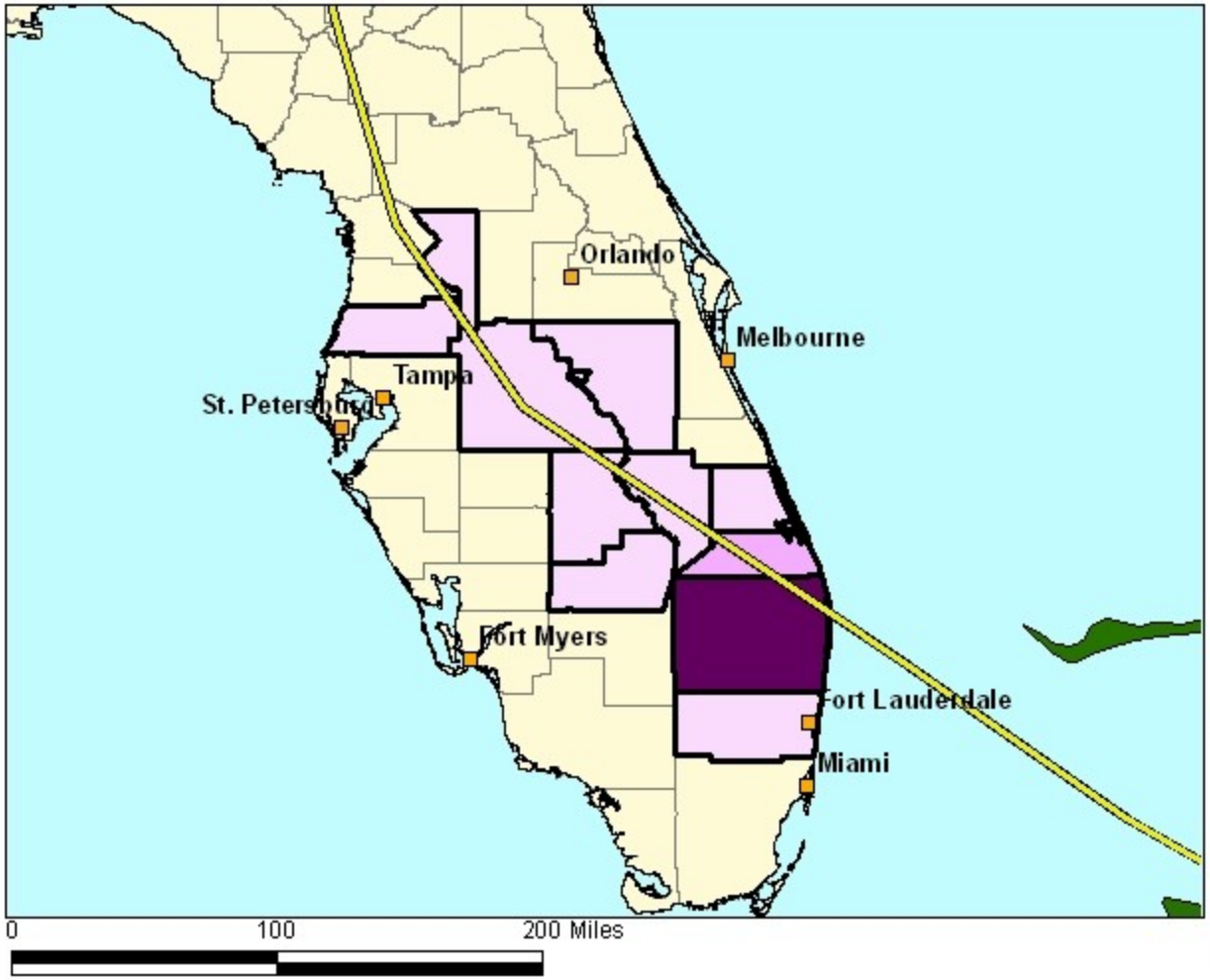

Post Landfall Temporary Housing Model Results

Florida - 31,000

Model results per county on following page

This model is based on a Category 4 storm making landfall near Palm Beach.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC (1700 EDT 05/09/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 8% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Tolbert Temporary Housing Model

Landfall Plus About **15** Hours

For Official Use Only!

State	per State	County	per County
Florida		Broward	< 100
		Glades	< 100
		Highlands	200
		Martin	2,400
		Okeechobee	500
		Osceola	< 100
		Palm Beach	26,300
		Pasco	< 100
		Polk	700
		St Lucie	900
		Sumter	< 100
Florida	31,000		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 8% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Housing Model

Generated By:
Siemsen, LRL 1730 EDT 05/09/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Tolbert Temporary Roofing Model

Landfall Plus About **15** Hours

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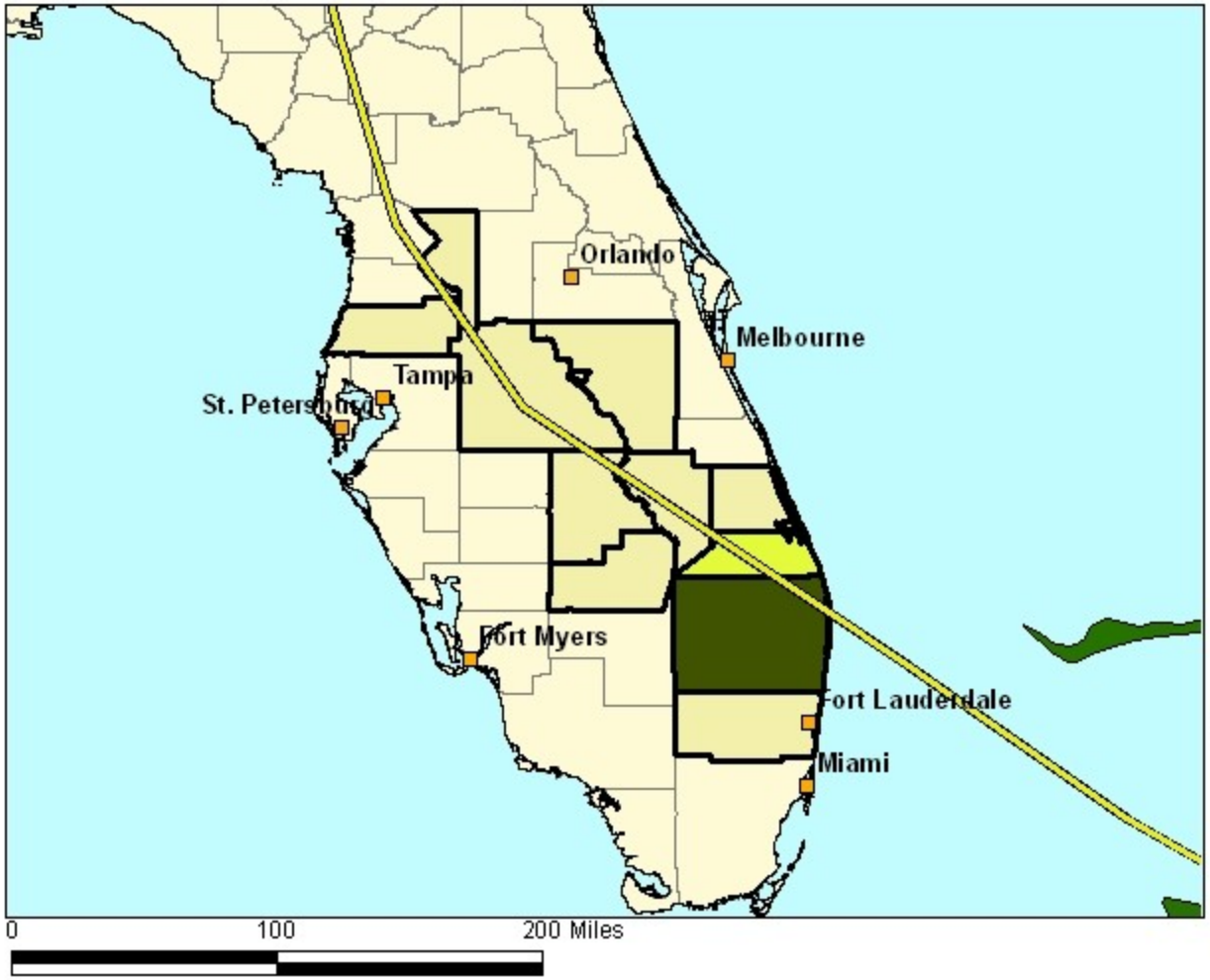

Post Landfall Temporary Roofing Model Results

Florida - 43,600

Model results per county on following page

This model is based on a Category 4 storm making landfall near Palm Beach.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall near Palm Beach. These projections are based on information from the NHC (1700 EDT 05/09/2007) forecast. Temporary roofing is based on 2% in CAT 1, 4% in CAT 2, 7% in CAT 3 and 11% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 12 of 13

US Army Corps of Engineers

Hurricane Tolbert Temporary Roofing Model

Landfall Plus About **15** Hours

For Official Use Only!

State	House Units per State	County	House Units per County
Florida		Broward	< 100
		Glades	< 100
		Highlands	300
		Martin	3,300
		Okeechobee	700
		Osceola	< 100
		Palm Beach	36,500
		Pasco	< 100
		Polk	1,300
		St Lucie	1,500
		Sumter	< 100
Florida	43,600		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 4% in CAT 2, 7% in CAT 3 and 11% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Tolbert Roofing Model

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Sources:
HURREVAC
LRL-DEBRIS